

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	Schwartz, Peter V.) Group Art Unit 1725
Appl. No.	:	10/010,079)
Filed	:	November 9, 2001)
For	:	CONDUCTION HEATER FOR THE BOC EDWARDS AUTO 306 EVAPORATOR)
Examiner	:	Unknown)

PRELIMINARY AMENDMENT

United States Patent and Trademark Office
 PO Box 2327
 Arlington, VA 22202

Dear Sir:

IN THE SPECIFICATION:

Please add the following paragraph immediately following the Brief Description of the Drawings and prior to paragraph number [0027]:

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawings will be provided by the Office upon request and payment of the necessary fee.

Please replace paragraph number [0057], with the following rewritten paragraph:

As shown in Figure 8, the evaporation deposition system may consist of a chamber surface 44 and a bell glass 46 for creating a vacuum chamber 48. The chamber may contain, among other things, the sample mount 12 with conductive heater; a radiant heater 50, such as a halogen lamp; the vapor source 52; and other instrumentation. The other instrumentation is

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omitted from Figure 8 to simplify the illustration. A vacuum system is connected to the vacuum chamber for creating the vacuum. The vacuum system of Figure 8 includes a turbo pump 54, a backing pump 56, and cold traps 58, 60 prior to the suction side of each pump. The turbo pump 54 is the primary evacuation device for the chamber 48. The backing pump 56 may be necessary to enable the turbo pump 54 to attain lower pressures within the chamber. With the turbo pump / backing pump combination, pressures in the range of 5×10^{-8} mbar to 5×10^{-7} mbar are attainable. The cold traps 58, 60, or nitrogen traps, prevent the contamination of the chamber environment by pump oils and any dissolved gasses removed during evacuation.

Please replace paragraph number [0058], with the following rewritten paragraph:

In the preferred method of use, the vacuum chamber is created by placing a bell glass 46 atop the chamber surface 44 to create the vacuum chamber 48. The pumps 54, 56 are then started to evacuate the chamber 48. Once the pumps are started, the radiant heater 50, i.e., halogen lamps, are turned on. After approximately one hour, an equilibrium at a desired high temperature is reached within the chamber 48. The high temperature and lowered pressure "bake" the contents of the chamber to remove contaminants within the chamber and its contents. Once this equilibrium is reached, the radiant heater 50 is turned off and the chamber is allowed to cool for a desired period, e.g. overnight. As the temperature falls, the pressure within the chamber 48 is also lowered. The pressure within the chamber, once the chamber returns to room temperature, is approximately 5×10^{-8} mbar.

Drawings

Please amend the drawings as indicated in the accompanying Request for Approval of Drawing Changes and redlined version of Figure 8. Applicants have amended the figures to replace the text with reference numbers for several of the features disclosed in the specification as indicated in the accompanying redlined version of the Figure. No new matter is being added with this drawing.

Applicants believe that the drawings are now acceptable with respect to MPEP 608.02 and 37 CFR 1.83(a).

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REMARKS

As each of the foregoing amendments is supported in the specification, Applicants maintain that no new matter has been added. The specific changes to the specification are shown on a separate set of pages attached hereto and entitled **VERSION WITH MARKINGS TO SHOW CHANGES MADE**, which follows the signature page of this Amendment. On this set of pages, the insertions are underlined while the deletions are stricken through.

If any issues remain that may be addressed by a phone conversation, the Examiner is invited to contact the undersigned at the phone number listed below.

Please charge any additional fees, including any fees for additional extension of time, or credit overpayment to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 2/26/02

By: 
Nancy W. Vensko
Registration No. 36,298
Attorney of Record
620 Newport Center Drive
Sixteenth Floor
Newport Beach, CA 92660
(805) 547-5585

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

Paragraph number [0057] has been amended, as follows:

As shown in Figure 8, the evaporation deposition system may consist of a chamber surface 44 and a bell glass 46 for creating a vacuum chamber 48. The chamber may contain, among other things, the sample mount 12 with conductive heater; a radiant heater 50, such as a halogen lamp; the vapor source 52; and other instrumentation. The other instrumentation is omitted from Figure 8 to simplify the illustration. A vacuum system is connected to the vacuum chamber for creating the vacuum. The vacuum system of Figure 8 includes a turbo pump 54, a backing pump 56, and cold traps 58, 60 prior to the suction side of each pump. The turbo pump 54 is the primary evacuation device for the chamber 48. The backing pump 56 may be necessary to enable the turbo pump 54 to attain lower pressures within the chamber. With the turbo pump / backing pump combination, pressures in the range of 5×10^{-8} mbar to 5×10^{-7} mbar are attainable. The cold traps 58, 60, or nitrogen traps, prevent the contamination of the chamber environment by pump oils and any dissolved gasses removed during evacuation.

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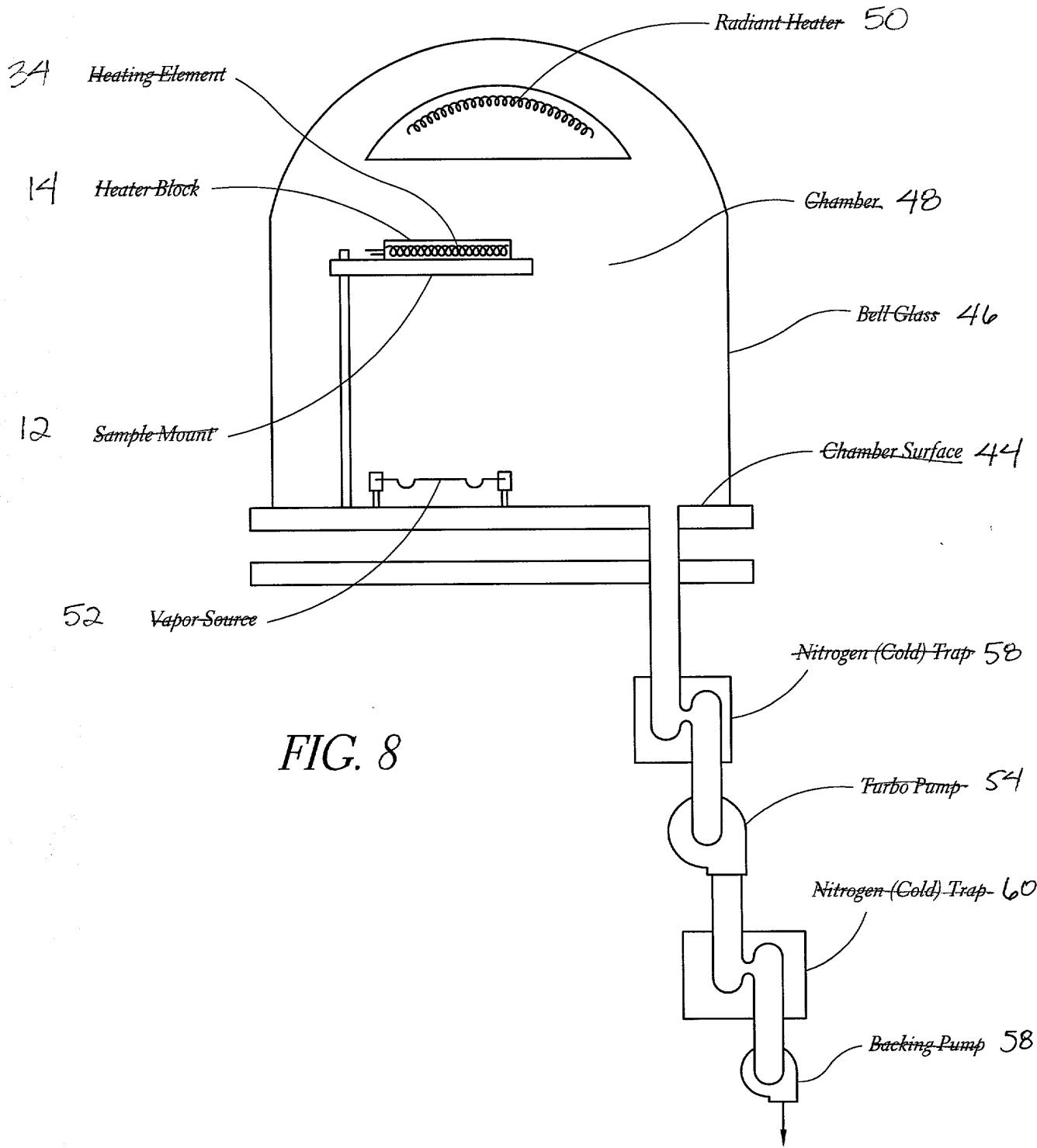


FIG. 8